



TOPIC: How to Use Bulldozer Swamper Hand Signals

TIME FRAME: :30

LEVEL of INSTRUCTION: Level II

BEHAVIORAL OBJECTIVE:

Condition: A student in appropriate wildland PPE per CAL FIRE policy, a

flashlight and verbal commands

Behavior: Student will demonstrate the proper hand signals for bulldozer

maneuvering and winch operation under simulated fireground

conditions.

Standard: With a minimum of 80% accuracy

MATERIALS NEEDED: ■ Flashlight

Bulldozer (if available)

Appropriate visual aids

Audio visual equipment

Appropriate wildland PPE per CAL FIRE policy

REFERENCES: ■ NWCG, Fireline Handbook #3, PMS 410-1

<u>CAL FIRE Bulldozer Safety Video</u>, Susanville Traning

Camp

PREPARATION: It may become necessary for any CAL FIRE fire suppression

employee to signal a bulldozer. It is important that the meaning of your signal is understood by the dozer operator.

Using standard signals will avoid confusion and create a safer

working environment.



OPERATIONS

KEY POINTS

BULLDOZER MANEUVERING SIGNALS

1. Reverse or back up

2. Stop or shut down

3. Turn

4. Caution

Information Sheet #1

- 1a. While in operators view
- b. With right arm fully extended
- c. Hand open
- d. Make continuous circling motions in front of the body
- e. Until completion of the maneuver
- 2a. While in operator's view
 - b. With right arm extended
 - c. In front of the body
 - d. At chest height
 - e. With the palm down
 - f. Swing arm repeatedly to the left and right side of the body
 - g. Motion parallel to the ground
- 3a. In operator's view
 - b. Using arm on side of body to which turn is to be made
 - c. Fully extend arm to full upright position (overhead and perpendicular)
 - d. Hand open
 - e. Repeated downward sweeps of the arm to the area of the thigh
- 4a. In operator's view
 - With right arm fully extended over the head
 - c. Hand open
 - Repeated overhead arcs from level of right shoulder to level of left shoulder



OPERATIONS

KEY POINTS

STANDARD WINCH SIGNALS

1. Wind cable in

2. Wind cable out

3. Stop

4. Move vehicle left

Information Sheet #2

- Facing the winching vehicle
- b. With right arm fully extended to right side of the body
- c. At shoulder height
- d. With right hand in a fist
- e. Raise thumb
- 2a. Facing the winching vehicle
 - b. With right arm fully extended to the right side of the body
 - c. At shoulder height
 - d. With right hand in a fist
 - e. Point thumb toward the ground
- 3a. Facing the winching vehicle
 - b. Both arms fully extended
 - c. To the front of the body at shoulder height
 - d. Palms open and directed outward
 - e. Palms perpendicular to the ground
- 4a. Facing the winching vehicle
 - b. With right arm flexed slightly to the right side of the body
 - c. At head height
 - d. Right hand in a fist
 - e. Point thumb to the right
 - f. Thumb parallel to the ground



OPERATIONS KEY POINTS

5. Move vehicle right

- 5a. Facing the winching vehicle
 - b. With left arm flexed slightly to the left side of the body
 - c. At head height
 - d. Left hand in a fist
 - e. Point thumb to the left
 - f. Thumb parallel to the ground



APPLICATION:

Student to practice until proficient.

EVALUATION:

A performance examination.

ASSIGNMENT:

To be determined by instructor(s).